Interplonal Application No PCT/IB2005/000512

CLASSIFICATION OF SUBJECT MATTER PC 7 CO7D417/12 A61K31/496 A61P25/18 According to International Patent Classification (IPC) or to both national classification and IPC Minimum documentation searched (classification system followed by classification symbols) CO7D A61K A61P IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, CHEM ABS Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages 1 - 4US 4 831 031 A (LOWE, III ET AL) Α 16 May 1989 (1989-05-16) cited in the application column 2, line 25 - line 48; example 16 1-4 US 5 338 846 A (BUSCH ET AL) Α 16 August 1994 (1994-08-16) cited in the application column 1; claims 1-19; examples 1-3 1 - 4EP 0 584 903 A (PFIZER INC) Α 2 March 1994 (1994-03-02) cited in the application the whole document & US 5 206 366 A 27 April 1993 (1993-04-27) Patent family members are listed in annex. Further documents are listed in the continuation of box C. *T* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone earlier document but published on or after the international document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O document referring to an oral disclosure, use, exhibition or other means document published prior to the international filling date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 09. 09. 2005 2 September 2005 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Rufet, J

Fax: (+31-70) 340-3016

Intentional Application No PCT/IB2005/000512

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	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.
Α	US 6 150 366 A (ARENSON ET AL) 21 November 2000 (2000-11-21) cited in the application abstract	1
X .	WO 03/070246 A (PFIZER PRODUCTS INC) 28 August 2003 (2003-08-28)	5,6,8, 12-14, 17,18, 20-26, 28-31
	claims 1-3; examples 1,2	
X .	EP 0 586 191 A (PFIZER INC) 9 March 1994 (1994-03-09) claims 1-6; examples 1-3	22–31
X	US 6 110 918 A (BUSCH ET AL) 29 August 2000 (2000-08-29)	5,6,8, 12,13, 17-21
	example 1	
X	EP 0 965 343 A (PFIZER PRODUCTS INC) 22 December 1999 (1999-12-22) claims 1,13-16; example 10	5,20-23, 27-31
P,X	WO 2004/089948 A (HETERO DRUGS LIMITED; PARTHASARADHI, REDDY, BANDI; RATHNAKAR, REDDY, K) 21 October 2004 (2004-10-21) claims 1-17; examples 1-4	22-31
P,X	WO 2004/050655 A (DR. REDDY'S LABORATORIES LIMITED; DR. REDDY'S LABORATORIES INC; REDDY,) 17 June 2004 (2004-06-17) examples 1,2	5-7,12, 14,17-23
P,X	WO 2005/016325 A (TEVA PHARMACEUTICAL INDUSTRIES LTD; TEVA PHARMACEUTICALS USA, INC; MEN) 24 February 2005 (2005-02-24) claims 1-50; examples 3-7,10,11,13	22-31
·		
•		

national application No. PCT/IB2005/000512

Box II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This Inte	rnational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X	Claims Nos.: 31 because they relate to subject matter not required to be searched by this Authority, namely:
	Although claim 31 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
з. 🔲	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This Int	ternational Searching Authority found multiple inventions in this international application, as follows:
	see additional sheet
1. X	As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.
	- William Authority did not invite nevment
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
1	
4.	No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Rema	ark on Protest The additional search fees were accompanied by the applicant's protest.
	No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-4

Alternative process for the preparation of ziprasidone base

2. claims: 5-21

Alternative process for the preparation of substantially pure ziprasidone base $% \left\{ 1,2,\ldots ,n\right\}$

3. claims: 22-31

Alternative process for the preparation of substantially pure ziprasidone hydrochloride, pharmaceutical composition and uses thereof

Information on patent family members

interponal Application No PCT/IB2005/000512

		atent document d in search réport		Publication date		Patent family member(s)	Publication date
	US	4831031	A	16-05-1989	US	4883795 A	28-11-1989
	US	5338846	Α	16-08-1994	US US CA AT	5206366 A 5312925 A 2095587 A1 273976 T	27-04-1993 17-05-1994 27-02-1994 15-09-2004
					AT AU BR CN	206422 T 642836 B1 9302065 A 1083061 A ,C	15-10-2001 28-10-1993 26-07-1994 02-03-1994
					CZ DE DE DE	9300877 A3 69330853 D1 69330853 T2 69333597 D1	13-04-1994 08-11-2001 02-05-2002 23-09-2004
					DK EG EP EP	584903 T3 20214 A 1029861 A1 0584903 A1	03-12-2001 30-11-1997 23-08-2000 02-03-1994
				·• · · · · · · · · · · · · · · · · · ·	ES ES FI HU	2225015 T3 2161703 T3 932012 A 65750 A2 105622 A	16-03-2005 16-12-2001 27-02-1994 28-07-1994 15-06-1998
					IL JP JP KR MX	2742370 B2 6184143 A 123441 B1 9302813 A1	22-04-1998 05-07-1994 24-11-1997 28-02-1994
•					NO NZ PL PT	931656 A 247539 A 299002 A1 1029861 T	28-02-1994 26-09-1995 21-03-1994 30-11-2004
		· ·			PT RU SI SK	584903 T 2061695 C1 9300287 A 48593 A3	28-02-2002 10-06-1996 31-03-1994 06-04-1994
			·		ZA AU AU BR	9306225 A 657231 B2 4600493 A 9303014 A	27-02-1995 02-03-1995 16-06-1994 15-03-1994 02-03-1994
٠	•		٠.		CA CN CZ DE EG	2105114 A1 1089607 A ,C 9301789 A3 9312903 U1 20251 A	20-07-1994 13-04-1994 05-01-1994 31-05-1998
-					EP FI HU IL JP JP	0586191 A1 933804 A 67023 A2 106777 A 2742372 B2 6157521 A	09-03-1994 02-03-1994 30-01-1995 15-04-1997 22-04-1998 03-06-1994
	 [:	P 0584903	A	02-03-1994	MX NO 	9305277 A1 933093 A 5206366 A	31-03-1994 02-03-1994 27-04-1993
	CI	1 0004309		Um 00 2007	AT AT AU BR	273976 T 206422 T 642836 B1 9302065 A	15-09-2004 15-10-2001 28-10-1993 26-07-1994

xmation on patent family members

Interior Application No
PCT/IB2005/000512

		Patent family Publication		
Patent document cited in search report	Publication date	Patent family member(s)	Publication date	
EP 0584903 A		CA 2095587 A1 CN 1083061 A ,C CZ 9300877 A3 DE 69330853 D1 DE 69333597 D1 DK 584903 T3 EG 20214 A EP 1029861 A1 EP 0584903 A1 ES 225015 T3 ES 2161703 T3 FI 932012 A HU 65750 A2 IL 105622 A JP 2742370 B2 JP 6184143 A KR 123441 B1 MX 9302813 A1 NO 931656 A NZ 247539 A PL 299002 A1 PT 1029861 T PT 584903 T RU 2061695 C1 SI 9300287 A SK 48593 A3 US 5338846 A	27-02-1994 02-03-1994 13-04-1994 08-11-2001 02-05-2002 23-09-2004 03-12-2001 30-11-1997 23-08-2000 02-03-1994 16-03-2005 16-12-2001 27-02-1994 28-07-1994 28-07-1994 28-07-1998 05-07-1998 22-04-1998 05-07-1994 24-11-1997 28-02-1994 28-02-1994 26-09-1995 21-03-1994 30-11-2004 28-02-2002 10-06-1996 31-03-1994 06-04-1994 16-08-1994	
US 5206366 A	27-04-1993		27-02-1995 	

ormation on patent family members

Interplonal Application PCT/IB2005/0	on No
PCT/IB2005/0	00512

	Patent document Publication			Patent family	Publication	
	cited in search repo		date		member(s)	date
	US 5206366	`A		RU	2061695 C1	10-06-1996
	320000			SI	9300287 A	31-03-1994
			•	ŠK	48593 A3	06-04-1994
	•			US	5338846 A	16-08-1994
				ZA	9306225 A	27-02-1995
	US 6150366	A	21-11-2000	AP	1216 A	19-10-2003
	02 0120200	^	21 11 2000	ÄT	240732 T	15-06-2003
				AU	753820 B2	31-10-2002
				AU	3398399 A	23-12-1999
	•			BG	103489 A	31-07-2000
			•	BR	9902268 A	02-05-2000
				CA	2274338 A1	15-12-1999
				DE	69908021 D1	26-06-2003
				DE	69908021 T2	27-11-2003
				DK	965343 T3	04-08-2003
				EA	2223 B1	28-02-2002
			• •	EP	0965343 A2	. 22-12-1999
				ES	2197581 T3	01-01-2004
				HR	990193 A1	29-02-2000
				HU	9901960 A2	28-08-2000
				ID	23546 A	04-05-2000
				ΙL	130424 A	31-10-2003
				JP	3441676 B2	02-09-2003
				JP	2000007566 A	11-01-2000
				JP	2002003492 A	09-01-2002
				KR	2000006143 A	25-01-2000
				MA	26647 A1	20-12-2004
			,	NO	992892 A	16-12-1999
			,	· NZ	336271 A	27-10-2000
			•	OA	11064 A	13-03-2002
	•			PL	333737 A1	20-12-1999
	. ,			PT	965343 T	29-08-2003
				SG	77243 A1	19-12-2000
				SI	965343 T1	31-10-2003 11-12-2000
		•		SK	76999 A3	21-01-2000
				TR	9901379 A2 590774 B	11-06-2004
			•	TW	9903938 [.] A	14-12-2000
			·,	ZA		14-12-2000
	WO 03070240	5 A	28-08-2003	AU	2003206035 A1	09-09-2003
				BR	0307833 A	07-12-2004
				CA	2475302 A1	28-08-2003
				CN	1635892 A	06-07-2005 17-11-2004
				EP	1476162 A1 20040711 A2	31-12-2004
				HR	03070246 A1	28-08-2003
				WO MA	27177 A1	03-01-2005
				US	2004048876 A1	11-03-2004
			00 00 1004			17-05-1994
•	EP 0586191	Α	09-03-1994	US	5312925 A	02-03-1995
				AU	657231 B2	16-06-1994
				AU	4600493 A	15-03-1994
				BR	9303014 A	27-02-1994
				CA	2095587 A1 2105114 A1	02-03-1994
				CA		
•			•	CN	1089607 A ,C	20-07-1994

Thrormation on patent family members

inte	ional Application No
PCT/	IB2005/000512

Patent document cited in search report	Publication date	•	Patent family member(s)	Publication date
EP 0586191 A		DE EG EP FI HU JP JP MX NO NZ PL RU TW ZA	9312903 U1 20251 A 0586191 A1 933804 A 67023 A2 106777 A 2742372 B2 6157521 A 9305277 A1 933093 A 248543 A 300235 A1 174396 B1 2081116 C1 422845 B 5338846 A 9306394 A	05-01-1994 31-05-1998 09-03-1994 02-03-1994 30-01-1995 15-04-1997 22-04-1998 03-06-1994 31-03-1994 02-03-1994 26-07-1995 05-04-1994 31-07-1998 10-06-1997 21-02-2001 16-08-1994 28-02-1995
US 6110918 A	29-08-2000	AAABBBCDDEEHHULPPOZLIKPNZSRODRAZATTWA AABBCDEKAPKULPPOZLIKPNZSRODRAZATTWA	236902 T 730856 B2 1936897 A 63601 B1 102893 A 9708932 A 2252895 A1 69720719 D1 69720719 T2 904273 T3 1180 B1 0904273 A1 1017893 A1 9902808 A2 126590 A 3102896 B2 11509865 T 985193 A 332219 A 329880 A1 904273 T1 150598 A3 838 A 1216990 A ,C 9803494 A3 2192264 T3 970235 A1 9742190 A1 17504 A 2000010822 A 26427 A1 508303 A 10908 A 904273 T 9802241 T2 427989 B 9703875 A	15-04-2003 15-03-2001 26-11-1997 28-06-2002 30-09-1999 03-08-1999 13-11-1997 15-05-2003 06-11-2003 07-07-2003 30-10-2000 31-03-1999 07-03-2003 28-03-2000 25-11-2001 23-10-2000 31-08-1999 06-11-1998 25-02-2005 12-04-1999 31-08-2003 13-03-2000 03-05-2000 19-05-1999 15-09-1999 01-10-2003 30-06-1998 13-11-1997 08-01-1998 25-02-2000 20-12-2004 27-07-2001 26-10-2001 30-06-2003 22-02-1999 01-04-2001 06-11-1998
EP 0965343 A	22-12-1999	AP AT	1216 A 240732 T	19-10-2003 15-06-2003

Enri OCT/ICA/240 Instent family anney) (January 2004)

iformation on patent family members

Interponal Application No PCT/IB2005/000512

	itent document I In search report		Publication date		Patent family member(s)		Publication date
EP	0965343	4	<u></u>	AU	753820 B2	 2	31-10-2002
				AU	3398399 A		23-12-1999
				BG	103489 A		31-07-2000
				BR	9902268 A		02-05-2000
				CA	2274338 A1	ı	15-12-1999
				DE	69908021 DI		26-06-2003
				DE	69908021 T2		27-11-2003
				DK	965343 T3		04-08-2003
	•			EA	2223 B1		28-02-2002
				EP	0965343 A2		22-12-1999
	•						01-01-2004
			*	ES	2197581 T3		
				HR	990193 A		29-02-2000
		·		HU	9901960 A	2	28-08-2000
	•			ID	23546 A		04-05-2000
			,	IL	130424 A		31-10-2003
				JP	3441676 B	2	02-09-2003
				JP	2000007566 A		11-01-2000
				JP	2002003492 A		09-01-2002
				KR	2000006143 A		25-01-2000
	•			MA	26647 A	1	20-12-2004
				NO	992892 A		16-12-1999
	•			NZ	336271 A		27-10-2000
				OA	11064 A		13-03-2002
٠.	•			PL	333737 A	1	20-12-1999
				PΤ	965343 T	- .	29-08-2003
			•	SG	77243 A	1	19-12-2000
* 1	•			SI	965343 T		31-10-2003
					76999 A	_	11-12-2000
	•		•	SK			21-01-2000
				TR	9901379 A		
				TW	590774 B		11-06-2004
				US-	6150366 A		21-11-2000
				ZA	9903938 A		14-12-2000
<u> </u>	2004089948	À	21-10-2004	WO	2004089948 A	1	21-10-2004
. WO	00 1003510	• •		AU	2003245027 A		01-11-2004
		•		US	2005143396 A	1.	30-06-2005
WO	2004050655	Α	17-06-2004	WO	2004050655 A	1	17-06-2004
		 A	24-02-2005	EP	1530570 A	2	18-05-2005
WU	2005016325	М	, 24-02 2003	ĒΡ	1546146 A		29-06-2005
				ÜS	2005059680 A		17-03-2005
	•			US	2005043324 A		24-02-2005
					2005043324 A		24-02-2005
			•	WO.	2005016325 A		21-04-2005
				WO	ZUUDUDDDDI F	/ T	TT 04 F000